

# **SPEED-MATCHING CONTROL METHOD AND CIRCUIT**

## **ABSTRACT**

One embodiment of the present invention provides a system that matches speeds of asynchronous operation between a local chip and a neighboring chip. The system derives an internal frequency signal from an internal oscillator on the local chip, and receives an external frequency signal from a neighboring chip. The system then compares the internal frequency signal with the external frequency signal to generate a control signal, which is applied to the local chip to adjust the operating speed of the local chip, and applied to the internal oscillator to adjust the frequency of the internal oscillator.